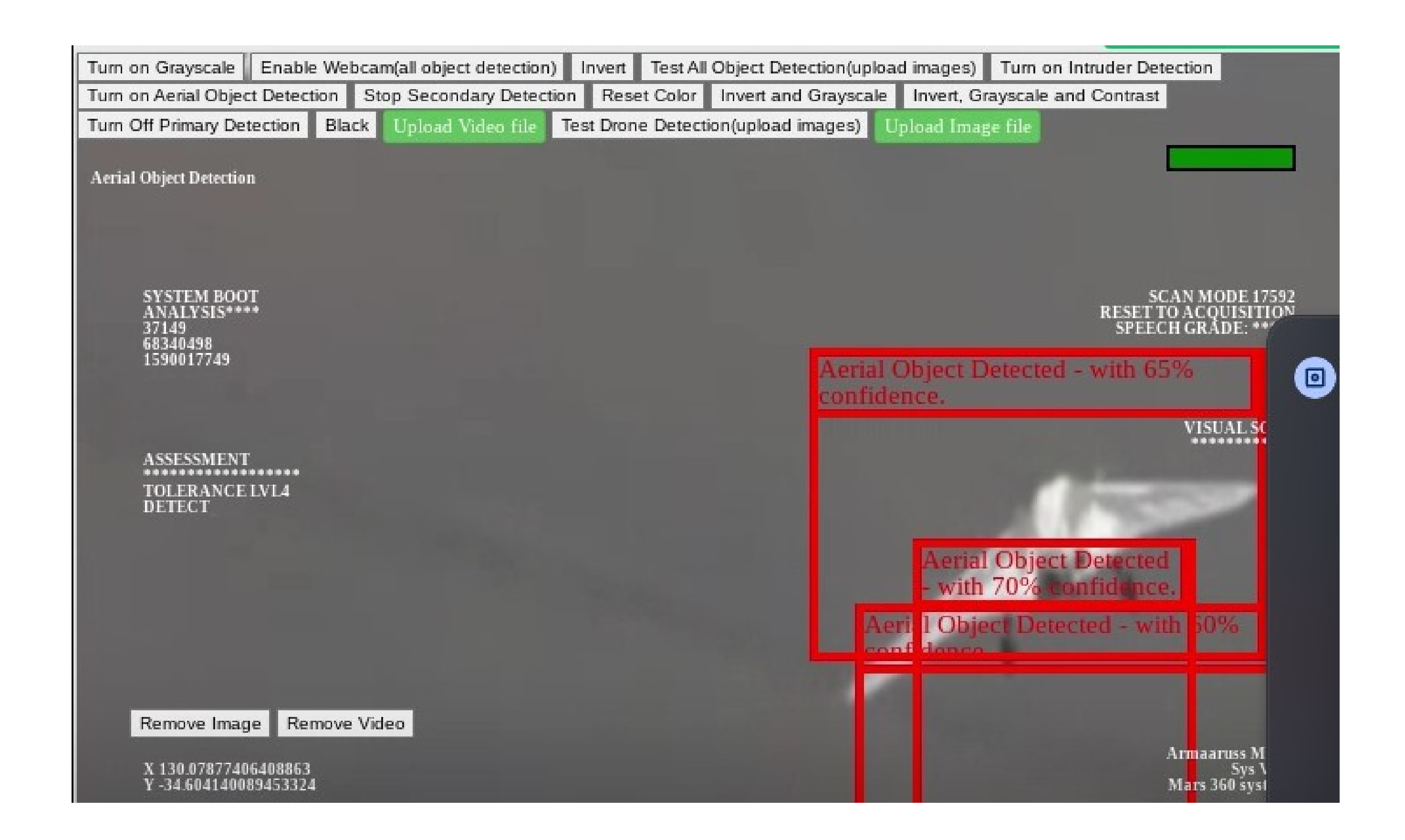
Armaaruss UAV and Soldier Detection System 1.0

(Anthony of Boston)

Ready for immediate deployment, this document contains JavaScript source code and apk file for a military tracking program that can detect enemy drones and soldiers. This code combines both aspects of drone detection and human detection in one program. Both primary and secondary identification function in this program. Here is a working APK file that has been tested and is ready for active use and immediate deployment. This is an American english version

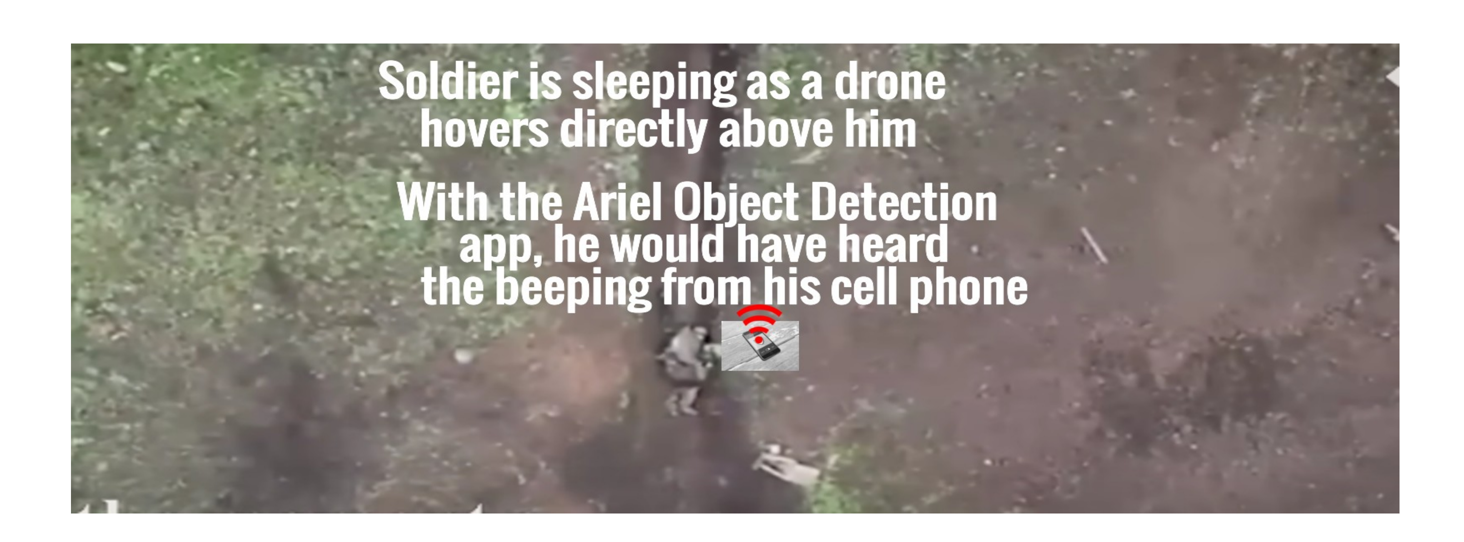
https://www.webintoapp.com/store/499032

This JavaScript app for detecting drones and soldiers has several features. It comes with primary and secondary detection. Basic detection (white bounding box) is basic detection of an object using your device's webcam. However, primary detection does not respond to color calibration, which means that the result will be the same whether the screen or frame is light or dark. The secondary detection results are color calibrated, meaning that using different filters used to change the appearance of the frame/video will affect the secondary detection output. You can check this in the app by pressing the black button. The screen will go black, but still Primary detection can be enabled, while secondary detection can no longer display a bounding box. Secondary detection still works in that scenario, but cannot see or detect anything because the screen is black - it basically detects a black image, while primary detection is still processing the video output. The breakthrough is here is that the Javascript code for the secondary detection renders the webcam video output as an image instead of a video. A good way to understand secondary detection is to imagine a continuous upload of a new image file every second. With the default tensorflow object detection code, detecting objects in different images will need achieve a new image file upload every second to accommodate the secondary detection processes. This program, called Armaaruss UAV and Soldier Detection System, runs a tensorflow script so that each frame is detected and treated as an image, with bounding boxes displayed and removed with each frame. This is what makes Armarus the vision component different from other object detection programs. Secondary detection allows us to use invert colors as a makeshift night detection feature, further enhancing object detection capabilities without having to continously train new models. Here is an example of secondary detection tracking a Russian drone

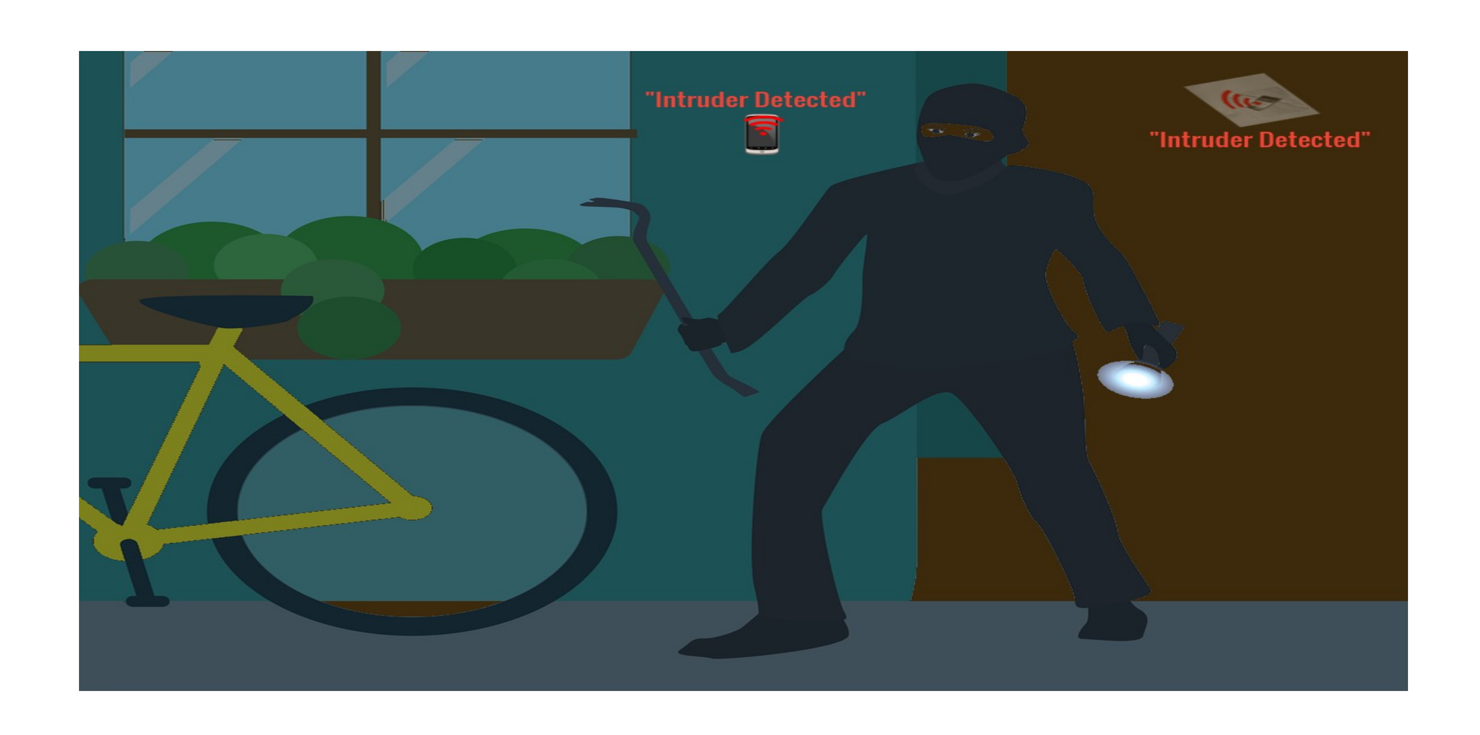


This aerial object detection and intruder detection system uses a beep signal and AI generated voice to notify when an aerial object is detected. The longer the airborne object hovers above you, the longer the sound signal. Ideally, soldiers would use an attachment on their cell phone and attach the device to the top of their vehicles or to their body while sleeping in the trenches. Remember that during combat operations the SIM card must be removed, and the wireless connection of the cell phone must be turned off. Before deployment, soldiers must connect to Wi-Fi and activate the program. Once the program starts, the soldier can turn off the Wi-Fi and leave the program running when he/she is in the combat zone. To detect airborne objects in battle, attach the Android phone to the top of the backpack or the top of the helmet.

In a civilian environment, a cell phone with an activated wireless connection can be placed on rooftops. With internet access, the user could remotely view the scene from the air via Facebook Live
.
Intruder detection will beep when an intruder is detected. The program will also issue a voice alert saying "Intruder detected" after detecting an intruder. This app allows you to set phones in different locations that can detect when an intruder is in the area. It can be used in clearance and counterinsurgency operations. It is also useful for citizens against thugs and other criminals in urban environments. The app can prevent ambush attacks. The phone can be placed in cracks in the wall and other inconspicuous places. With internet access, the user could monitor the scene remotely via Facebook and see when intruders gained unauthorized access.

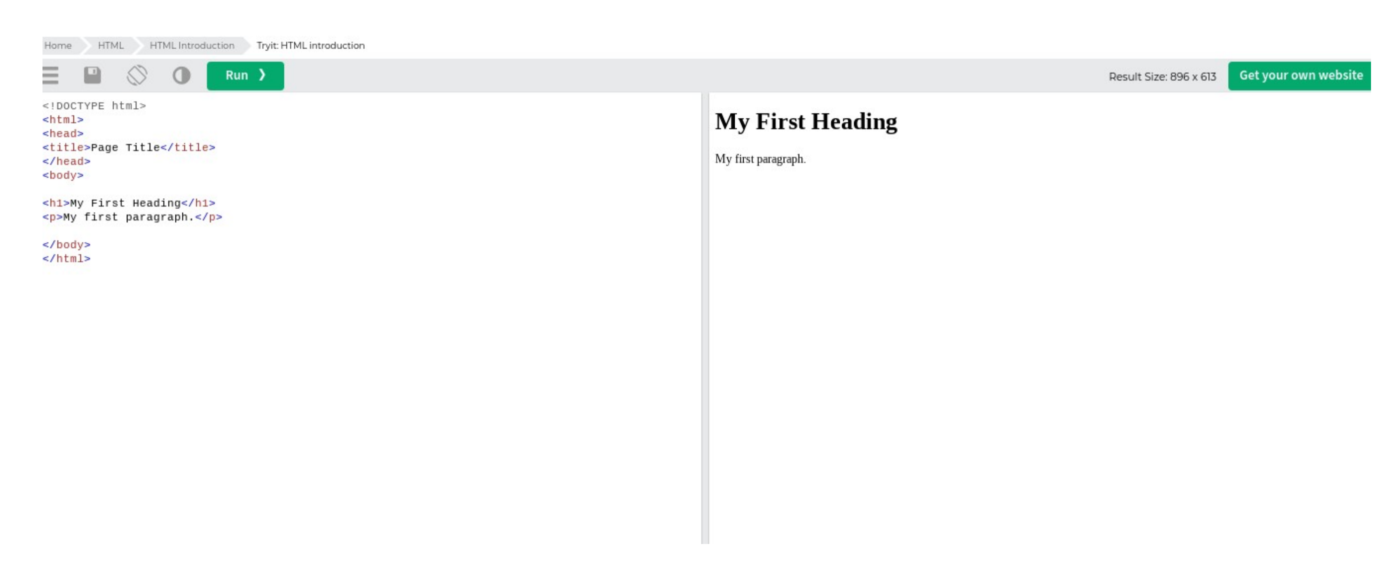

Soldier is sleeping as a drone
hovers directly above him
With the Ariel Object Detection
app, he would have heard
the beeping from his cell phone


This is an example of placing a cell phone
with the Ariel Object Detection app on a rooftop
Ariel Object Detection app would have been beeping nonstop
just as this US drone was getting ready to strike a civilian building
N


"Intruder Detected"
"Intruder Detected"


"Intruder Detected"

For testing, you can copy and paste this HTML code below on the W3Schools website. https://www.w3schools.com/html/tryit.asp?filename=tryhtml_intro



Just copy and paste the following html code to create your own apk file for android or check objects, drones intruders on your webcam.

```
<html lang="en">
  <head>
    <title>Виявлення об’єктів за допомогою попередньо навченої моделі в TensorFlow.js</title>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1">


    <!-- Import the webpage's stylesheet -->
    <link rel="stylesheet" href="/style.css">



  </head>

  <style>

html,body,div,span,applet,object,iframe,h1,h2,h3,h4,h5,h6,p,blockquote,pre,a,abbr,acronym,address,big,cite,code,del,dfn,em,img,ins,kbd,q,
s,samp,small,strike,strong,sub,sup,tt,var,b,u,i,center,dl,dt,dd,ol,ul,li,fieldset,form,label,legend,table,caption,tbody,tfoot,thead,tr,th,td,article,
aside,canvas,details,embed,figure,figcaption,footer,header,hgroup,menu,nav,output,ruby,section,summary,time,mark,audio,video{font-
size:100%;font:inherit;padding:0;border:0;margin:0;vertical-align:baseline z-index:12;}body{line-height:1}ol,ul{list-
style:none}blockquote,q{quotes:none}blockquote:before,blockquote:after,q:before,q:after{content:'';content:none}table{border-
collapse:collapse;border-
spacing:0}article,aside,details,figcaption,figure,footer,header,hgroup,menu,nav,section{display:block}.clear{clear:both}
.sticky{}.bypostauthor{}.wp-caption{}.wp-caption-text{}.gallery-caption{}.alignright{}.alignleft{}.aligncenter{}

textarea:focus, input:focus{outline: none; }
*:focus {outline: none;}

body {

  background-color: #999999;
}



.wrapper {

width: 100vw;
height: 100vh;
float: left;
box-sizing: border-box;
position: relative;

   }


#endec1{
left: 300px;
top: 400px;
}

#endec2{
left: 300px;
top: 400px;
}

#intru1{
color: #fff;
  font-size: 8px;;



-webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;
  width: 50%;
margin: 0 auto;
position: absolute;
bottom: 50px;
left: 0;
right: 0;
text-align: center;
}

#intru2{
  font-size: 8px;;
color: #fff;


-webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;
  width: 50%;
margin: 0 auto;
position: absolute;
bottom: 50px;
left: 0;
right: 0;
```

```
text-align: center;
}


#intru{
  font-size: 8px;;



-webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;
  width: 50%;
margin: 0 auto;
position: absolute;
bottom: 50px;
left: 0;
right: 0;
text-align: center;

}



.title {
  width: 100%;
  height: 20vh;
  display: table;
  text-align: center;
  box-sizing: border-box;
}
.title h1 {
font-size: 50px;
color: #FFFFFF;
  display: table-cell;
  vertical-align: middle;
}

.vision {
width: 100%;
height: 80vh;
position: relative;
overflow: hidden;
    z-index: 10;
}

.stage {
width: 100%;
  height: 100%;
  position: absolute;
  top: 0;
  left: 0;
  right: 0;

background-size: cover;
background-repeat: no-repeat;
background-position: center;
}

.overlay {
width: 100%;
  height: 100%;
  position: relative;


background-repeat: repeat;
background-position: center;
}

.overlay .positionals {
width: 25%;
margin: 0 auto;
position: absolute;
bottom: 30px;
left: 50px;
text-align: left;
}
.overlay .positionals p {font-size: 12px;}

.overlay .model {
width: 25%;
margin: 0 auto;

position: absolute;
bottom: 30px;
right: 50px;
```

```
text-align: right;
}
.overlay .model p {font-size: 12px;}

.overlay .left {
width: 40%;
position: absolute;
top: 50px;
left: 50px;

}
.overlay .right {
width: 40%;
position: absolute;
top: 50px;
right: 50px;
text-align: right;
}
.overlay p {
font-size: 10px;
color: #FFFFFF;
margin: 0 auto;
}
.overlay .center {
width: 50%;
margin: 0 auto;
position: absolute;
bottom: 50px;
left: 0;
right: 0;
text-align: center;
}
.overlay .center p {font-size: 20px;}
.overlay .center p span {opacity: 1;}
span.letter1 {
-webkit-animation: letterone 1s infinite;
  animation: letterone 1s infinite;
}
span.letter2 {
-webkit-animation: lettertwo 1s infinite;
  animation: lettertwo 1s infinite;
}
span.letter3 {
-webkit-animation: letterthree 1s infinite;
  animation: letterthree 1s infinite;
}
span.letter4 {
-webkit-animation: letterfour 1s infinite;
  animation: letterfour 1s infinite;
}
span.letter5 {
-webkit-animation: letterfive 1s infinite;
  animation: letterfive 1s infinite;
}
span.letter6 {
  -webkit-animation: lettersix 0.75s infinite;
  animation: lettersix 0.75s infinite;
}



@-webkit-keyframes letterone {80% {opacity: 0;}}
@keyframes letterone {80% {opacity: 0;}}

@-webkit-keyframes lettertwo {85% {opacity: 0;}}
@keyframes lettertwo {85% {opacity: 0;}}

@-webkit-keyframes letterthree {90% {opacity: 0;}}
@keyframes letterthree {90% {opacity: 0;}}

@-webkit-keyframes letterfour {95% {opacity: 0;}}
@keyframes letterfour {95% {opacity: 0;}}

@-webkit-keyframes letterfive {100% {opacity: 0;}}
@keyframes letterfive {100% {opacity: 0;}}

@-webkit-keyframes lettersix {100% {opacity: 0;}}
@keyframes lettersix {100% {opacity: 0;}}


p.dimension1,
p.dimension2,
p.dimension3,
p.dimension4,
```

```
p.dimension5 {opacity: 0;}

p.dimension1.show,
p.dimension2.show,
p.dimension3.show,
p.dimension4.show,
p.dimension5.show {opacity: 1;}

p.dimension5.show {
-webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;
}

p.dimension55.show {
-webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;
}
@-webkit-keyframes fit {100% {opacity: 0;}}
@keyframes fit {100% {opacity: 0;}}



/*
----------
BELOW 1400
----------
*/
@media screen and (max-width: 1399px) {

  .overlay p {  font-size: 8px;; font-weight: bold;}


}

/*
----------
BELOW 1000
----------
*/
@media screen and (max-width: 999px) {


  .title h1 {  font-size: 8px;; font-weight: bold;}
  .overlay p {  font-size: 8px;; font-weight: bold;}


}
  body {


}

h1 {
  visibility:hidden;
}

 #title1 {
  font-size: 8px;
font-weight: bold;
color: #ffffff;
top: 73px;
left: 10px;
position: fixed;


}

#title48 {
  font-size: 8px;
font-weight: bold;
color: #ffffff;
top: 99px;
left: 350px;
position: fixed;


}


.videoView, .classifyOnClick {
  position: fixed;


   z-index: 100;
```

```
  cursor: pointer;


}

.videoView, .classifyOnClick10 {
  position: fixed;
  top: 100px;

   z-index: 100;



  cursor: pointer;


}

#liveView {

border: none;
z-index: 0;
position: fixed;
font-style: bold;
  color: #ff9853;

    min-width: 100%; min-height: 100%;
    width: auto; height: auto; z-index: 0;

    background-size: cover;

}

video {


}

video {
  border: 1px solid black;
  display: block;

border: none;
z-index: -100;
position: fixed;
font-style: bold;
  color: #ff9853;

    min-width: 100%; min-height: 100%;
    width: auto; height: auto; z-index: -100;

    background-size: cover;

}

#myCanvas2 {
  border: 1px solid black;
  display: block;

border: none;
z-index: -100;
position: fixed;
font-style: bold;
  color: #ff9853;

    min-width: 100%; min-height: 100%;
    width: auto; height: auto; z-index: -100;

    background-size: cover;
}
```

```
 #webcamButton{
z-index: 10;
position: relative;

}



 .classifyOnClick1 p {


position: fixed;
  padding: 5px;

  color: #32CD32;


  z-index: 2;


margin-left: -35%;


z-index: 0;
position: fixed;
font-style: bold;
font-size: 12px;
-webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;





}

.classifyOnClick p {


z-index: 0;
position: fixed;
font-style: bold;
font-size: 20px;
  color: #ff0000;

-webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;



}

.classifyOnClick10 p{

 border: 7px solid #ff0000;
z-index: 0;
position: fixed;
font-style: bold;
font-size: 20px;
  color: #ff0000;

  -webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;

}

.classifyOnClick2 {


z-index: 11;
position: fixed;



}

#lefty{

top: 180px;

}

#centery{
```

```
  font-size: 8px;
font-weight: bold;
color: #ffffff;
top: 99px;
left: 20px;
position: fixed;
cursor: pointer;


}

#righty{

top: 180px;

}



.highlighter1 {
  background: rgba(0, 0, 0, 0);
  border: 10px solid #ff0000;
  z-index: 1;
  position: fixed;



  -webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;
}

.highlighter {
margin-left: -35%;
 background: rgba(0, 0, 0, 0);
  border: 10px solid #32CD32;
  z-index: 1;
  position: fixed;


   -webkit-animation: fit 1s infinite;
  animation: fit 1s infinite;
}

.classifyOnClick {
  z-index: 4;
}

.classifyOnClick10 {
  z-index: 4;
}




canvas{



    zoom: 100%;


}

#endec {
right: 40px;

}


#demo{
top:90px;
left: 15px;
font-weight: bold;
  font-size: 8px;
color: #ffffff;
  position: fixed;

z-index: 4;

}



#demo4{
```

```
font-weight: bold;
  font-size: 8px;
color: #000000;
  position: fixed;

z-index: 4;

}

#demo5{

font-weight: bold;
  font-size: 8px;
color: #000000;
  position: fixed;

z-index: 4;

}

#digital-clock{
top: 110px;
left: 10px;
font-weight: bold;
  font-size: 8px;
color: #ffffff;
  position: fixed;

z-index: 4;

}

.classifyOnClick1 progress {
  width: 5%;
  height: 10px;
right: 50px;
top: 55px;
  position: fixed;
  z-index: 10;
}
.classifyOnClick1 progress.charging {
 border: 3px solid black;
right: 50px;
 position: fixed;
  z-index: 10;
}
.classifyOnClick1 progress.draining {
  border: 3px solid red;
 right: 50px;
  position: fixed;
   z-index: 10;
}



#batteryname {
right: 50px;
top: 45px;
  position: fixed;
  z-index: 10;
  font-weight: bold;
  font-size: 8px;
color: #ffffff;
  position: fixed;

z-index: 4;


}

.btn {


    display: inline-block;
    padding: 6px 6px;
    margin-bottom: 0;
     font-size: 8px;
    font-weight: normal;
    line-height: 0.72857143;
    text-align: right;
    white-space: nowrap;
    vertical-align: middle;
    cursor: pointer;
    -webkit-user-select: none;
```

```
    -moz-user-select: none;
    -ms-user-select: none;
    user-select: none;
    background-image: none;
    border: 1px solid transparent;
    border-radius: 4px;
}
.btn-success {

    color: #fff;
    background-color: #5cb85c;
    border-color: #4cae4c;
}
/* This is copied from https://github.com/blueimp/jQuery-File-Upload/blob/master/css/jquery.fileupload.css */
 .fileinput-button {
    position: fixed;
    overflow: hidden;
}
/*Also*/
 .fileinput-button input {
    position: absolute;
    top: 0;
    right: 0;
    margin: 0;
    opacity: 0;
    -ms-filter:'alpha(opacity=0)';
    font-size: 200px;
    direction: ltr;
    cursor: pointer;
}

.btn1 {


    display: inline-block;
    padding: 6px 6px;
    margin-bottom: 0;
    font-size: 8px;
    font-weight: normal;
    line-height: 0.72857143;
    text-align: right;
    white-space: nowrap;


    vertical-align: center;
    cursor: pointer;
    -webkit-user-select: none;
    -moz-user-select: none;
    -ms-user-select: none;
    user-select: none;
    background-image: none;
    border: 1px solid transparent;
    border-radius: 4px;
}
.btn-success1 {

    color: #fff;
    background-color: #5cb85c;
    border-color: #4cae4c;
}
/* This is copied from https://github.com/blueimp/jQuery-File-Upload/blob/master/css/jquery.fileupload.css */
 .fileinput-button1 {
    position: fixed;
    overflow: hidden;
}
/*Also*/
 .fileinput-button1 input {
    position: fixed;
    top: 0;
    right: 0;
    margin: 0;
    opacity: 0;
    -ms-filter:'alpha(opacity=0)';
    font-size: 200px;
    direction: ltr;
    cursor: pointer;
}
video, input {


}

input {
```

```
}

#draft{

font-weight: bold;
  font-size: 8px;
color: #000000;
  position: fixed;

z-index: 4;

}
#input{

font-weight: bold;
  font-size: 8px;
color: #000000;
  position: fixed;

z-index: 7;

}



  </style>


  <body >



  <div class="classifyOnClick1"  id="liveView" ></div>








    <style>
  #myCanvas {

pointer-events: none;
}




   .player{




    background: red;


}


#deletethislater{

margin: 10%;
margin-top: 0%;
z-index:0;
}
#liveView {






}
.back{
  transform: rotatey(0deg);
}
.flip-front{
 font-size:8px;
}
@media screen and (max-width: 768px){
  .flip-front{

  }
```

```
}

.aerial-front{
 font-size:8px;
}
@media screen and (max-width: 768px){
  .aerial-front{

  }
}

.intrudor-front{
 font-size:8px;
}
@media screen and (max-width: 768px){
  .intrudor-front{

  }
}

.stopsec-front{
 font-size:8px;
}
@media screen and (max-width: 768px){
  .stopsec-front{

  }
}
.stoppri-front{
 font-size:8px;
}
@media screen and (max-width: 768px){
  .stoppri-front{

  }
}

.stopprimary-front{
 font-size:8px;
}
@media screen and (max-width: 768px){
  .stopprimary-front{

  }
}


    </style>




     <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>

<!-- Font -->
<link href="https://fonts.googleapis.com/css?family=Inconsolata:700" rel="stylesheet">

<!-- Wrapper -->
<div class="wrapper">


    <!-- Title -->
<div class="title">
      <h1><span class="letter6">_</span></h1>
    </div>

<!-- Vision -->
<div class="vision">

<!-- Stage -->
<div class="stage"></div><!-- Overlay -->
<div class="overlay">
<p id="deletethislater" style="text-align:left";> Armaaruss Detection <br><br>Wait for the model to load before clicking the "Aerial Object Detection" button to activate the webcam. The program will beep when it detects an aerial object. The longer the aerial object is near you, the longer the beep. For soldiers, this could mean that a drone is targeting them. Ideally, soldiers would use the app on their cell phones and attach the device to the top of a vehicle or to their body while sleeping in the trenches. Remember that the cell phone's wireless connection should remain "off" during combat. In a civilian environment, a wireless cell phone can be placed on rooftops. With internet access, the user can remotely view the scene from the air via Facebook Live
<br><br>
Click "Intruder Detection" to activate the Intruder Detection system. The intruder detection system will beep when an intruder is detected. The app will also issue a voice notification of “Intruder Detected” once an intruder is detected. This app allows you to set up phones in different locations that can detect when an intruder is in the area. It can be used in cleanup and counter-insurgency operations. It is also useful for civilians against bandits and other criminals in urban environments. The app can prevent ambush attacks. The phone can be placed in cracks in walls and other inconspicuous places. With internet access, the user could remotely monitor the event via Facebook and
```

```
see when intruders gained unauthorized access. </p>
<!-- Positionals -->
<div id="leftbottom" class="positionals" style="position:fixed" >



</div>

<!-- Model -->






</div>




</div>
<p  id="intru1"></p>
<p id="intru2"></p>
<p id="intru"></p>
<!-- Left -->
<div id="lefty" class="left" style="position:fixed;left:15px; top:150px" style="position:fixed"   >

</div>

<!-- Center -->
<div id = "centery" class="center">
<p>

</p>
</div>

<!-- Right -->
<div id="righty" class="right" style="position:fixed;top:150px; right: 15px;" >




</div>

</div>

</div>

</div>





   <div class="classifyOnClick" style="z-index:200">
     <canvas type="button" id="myCanvas"  style="filter:opacity(0%)"  value="click"  />
   </div>
<div class="classifyOnClick1" id="liveView"  ></div>






     <video class="player" id="webcam" autoplay ></video>




 <h2></h2>




   <div>




   </div>
  </section>


  <footer class="note">


  </footer>
```

```
  <div class="classifyOnClick2"  >




       </div>



         </div>

  <div class="classifyonClick75"style="position:absolute;z-index:200;left:0px;bottom:0px;font-size:20px" >

 <input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="demo4" onClick="hideMenu()"
value="Hide Menu"></input>

 <input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="demo5" onClick="showMenu()"
value="Show Menu" ></input>



  <script>
  function hideMenu(){
   document.getElementById("flips").style.visibility = "hidden";
  document.getElementById("stopsec").style.visibility = "hidden";
   document.getElementById("webcamButtonigc").style.visibility = "hidden";
   document.getElementById("input").style.visibility = "hidden";
   document.getElementById("webcamButtongrayscale").style.visibility = "hidden";
  document.getElementById("draft").style.visibility = "hidden";
  document.getElementById("webcamButtonpri").style.visibility = "hidden";
  document.getElementById("webcamButtonstartpri").style.visibility = "hidden";


   document.getElementById("webcamButton4").style.visibility = "hidden";
 document.getElementById("webcamButton12").style.visibility = "hidden";
  document.getElementById("webcamButton10").style.visibility = "hidden";
      document.getElementById("webcamButtoniandg").style.visibility = "hidden";
        document.getElementById("webcamButtonreset").style.visibility = "hidden";
         document.getElementById("webcamButtoninvert").style.visibility = "hidden";
  document.getElementById("webcamButton9").style.visibility = "hidden";
            document.getElementById("webcamButton16").style.visibility = "hidden";
           document.getElementById("webcamButtonblack").style.visibility = "hidden";
 document.getElementById("aerial").style.visibility = "hidden";
  document.getElementById("intruddo").style.visibility = "hidden";



  }


  function showMenu(){
  document.getElementById("flips").style.visibility = "visible";
  document.getElementById("stopsec").style.visibility = "visible";
                 document.getElementById("aerial").style.visibility = "visible";
                  document.getElementById("intruddo").style.visibility = "visible";
                  document.getElementById("webcamButton9").style.visibility = "visible";
                  document.getElementById("webcamButton16").style.visibility = "visible";


  document.getElementById("webcamButtonblack").style.visibility = "visible";
     document.getElementById("webcamButton10").style.visibility = "visible";
    document.getElementById("webcamButton4").style.visibility = "visible";
 document.getElementById("webcamButton12").style.visibility = "visible";
```

```
      document.getElementById("webcamButtoniandg").style.visibility = "visible";
       document.getElementById("webcamButtonreset").style.visibility = "visible";
        document.getElementById("webcamButtoninvert").style.visibility = "visible";
         document.getElementById("webcamButtongrayscale").style.visibility = "visible";


            document.getElementById("draft").style.visibility = "visible";
            document.getElementById("input").style.visibility = "visible";
            document.getElementById("webcamButtonpri").style.visibility = "visible";
  document.getElementById("webcamButtonstartpri").style.visibility = "visible";



                document.getElementById("webcamButtonigc").style.visibility = "visible";


                document.getElementById("webcamButton").style.visibility = "visible";


  }


  function brightnessOff(){


document.getElementById("webcam").style.filter = 'brightness(0)';

  ctx.filter = 'brightness(0)';
  ctx2.filter = 'brightness(0)';
  ctx3.filter = 'brightness(0)';
}

function invert(){



document.getElementById("webcam").style.filter = 'invert(1)';



  ctx.filter = 'invert(1)';
  ctx2.filter = 'invert(1)';
  ctx3.filter = 'invert(1)';
}

function invertandgrayscale(){





document.getElementById("webcam").style.filter = ' invert(1) grayscale(1)';

  ctx.filter = ' invert(1) grayscale(1)';
  ctx2.filter = ' invert(1) grayscale(1)';
  ctx3.filter = ' invert(1) grayscale(1)';




}
      let zoomLevel = 1;

      function webcamzoom(){




  document.getElementById("webcam").style.transform = "scale(2)";
          ctx.transform = ' scale(2)';
  ctx2.transform = ' scale(2)';
  ctx3.transform = ' scale(2)';



          }

      function webcamzoomout(){




  document.getElementById("webcam").style.transform = "scale(1)";
           ctx.transform = ' scale(1)';
  ctx2.transform = ' scale(1)';
  ctx3.transform = ' scale(1)';
```

```
          }

function invertandgrayscaleandcontrast(){




document.getElementById("webcam").style.filter = ' invert(1) grayscale(1) contrast(2)';


  ctx.filter = ' invert(1) grayscale(1) contrast(2)';
  ctx2.filter = ' invert(1) grayscale(1) contrast(2)';
   ctx3.filter = ' invert(1) grayscale(1) contrast(2)';
}


function grayscale(){






 document.getElementById("webcam").style.filter = ' grayscale(1)';



  ctx.filter = ' grayscale(1)';
  ctx2.filter = ' grayscale(1)';
  ctx3.filter = ' grayscale(1)';
}

function Reset(){





document.getElementById("webcam").style.filter = ' none';

ctx.filter = 'none';
ctx2.filter = 'none';
ctx3.filter = 'none';

}

function enableSecdet(){

document.getElementById("myCanvas").style.pointerEvents = "visible";
document.getElementById("demo").innerHTML = "Tap the Screen to activate Secondary Detection";

}


  </script>

      <script>

          var beep = (function () {

var ctxClass = window.audioContext ||window.AudioContext || window.AudioContext || window.webkitAudioContext

var ctxs = new ctxClass();

return function (duration, type, finishedCallback) {


duration = +duration;

type = (type % 5) || 0;


if (typeof finishedCallback != "function") {

finishedCallback = function () {};
```

```
}

var osc = ctxs.createOscillator();

osc.type = type;

osc.connect(ctxs.destination);

if (osc.noteOn) osc.noteOn(0);

if (osc.start) osc.start();

setTimeout(function () {

if (osc.noteOff) osc.noteOff(0);

if (osc.stop) osc.stop();

finishedCallback();

}, duration);

};

})();

        </script>




<div id="draft" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" class="btn btn-success fileinput-button"
><span>Test Drone detection (upload video file)</span><input onclick="this.value = null" type="file" id="drafty"
onchange="previewFiles(this);" accept="video/m4v" />
</div>




<button id="webcamButton12" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" class="stoppri-front" >Delete
video</button>

<button id="webcamButtonpri" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" class="stopprimary-front" >Stop
primary detection</button>

<button id="webcamButtonstartpri" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" class="startprimary-front"
>Start primary detection</button>

<script>


   var srat;
 var nosrat;
 const input4 = document.getElementById('drafty');
const videotest = document.getElementById('webcam');


const videoSource = document.createElement('source');
const button1 = document.getElementById('webcamButton12');
var c = document.getElementById("myCanvas");

var ctx2 = c.getContext("2d");



c.width = videotest.clientWidth;
c.height = videotest.clientheight;

var srat = setInterval(function (){

ctx2.drawImage(videotest, 0, 0, videotest.clientWidth, videotest.clientHeight)
}, 0);

input4.addEventListener('change', function() {
  const files = this.files || [];
```

```
  if (!files.length) return;

  const reader = new FileReader();

  reader.onload = function (e) {

 document.getElementById("demo").innerHTML= "Primary detection activated";
  document.getElementById("intru1").innerHTML = " ";

  document.getElementById("intru2").innerHTML = " "; document.getElementById("deletethislater").innerHTML= " ";
   document.getElementById("divy5").style.top = "10000000px";
  clearInterval(myInterval);
  clearInterval(myInterval2);
  video1.srcObject = null;
  video2.srcObject = null;

    videoSource.setAttribute('src', e.target.result);
    videotest.appendChild(videoSource);

    videotest.removeEventListener("loadeddata", intruder);
    videotest.addEventListener("loadeddata", aerialobject);

     document.querySelector('.player').addEventListener('ended', function () {

   videotest.load();
   stop();
   videotest.addEventListener("loadeddata", aerialobject);

})

var stopprimary = document.querySelector('.stopprimary-front');

document.querySelector('.stopprimary-front').addEventListener('click', function () {

document.querySelector('.player').addEventListener('ended', function () {

   videotest.load();
   stop();
   videotest.removeEventListener("loadeddata", aerialobject);
   videotest.removeEventListener("loadeddata", intruder);

})

 document.getElementById("demo").innerHTML= " ";
   videotest.removeEventListener("loadeddata", aerialobject);
   videotest.addEventListener("loadeddata", predictWebcam1);
   videotest.load();
   videotest.play();
   stop(); });

   var startprimary = document.querySelector('.startprimary-front');

document.querySelector('.startprimary-front').addEventListener('click', function () {

document.querySelector('.player').addEventListener('ended', function () {

   videotest.load();
   stop();
   videotest.addEventListener("loadeddata", aerialobject);

})
```

```
document.getElementById("demo").innerHTML= "Primary detection activated";
   videotest.addEventListener("loadeddata", aerialobject);


   videotest.load();
   videotest.play();
   stop(); });



var stoppri1 = document.querySelector('.stoppri-front');

document.querySelector('.stoppri-front').addEventListener('click', function () {


 document.getElementById("demo").innerHTML= "Видалення відео...";

   videotest.removeEventListener("loadeddata", aerialobject);


   videotest.load();
   videotest.play();
   stop();


  setTimeout(function(){
 document.getElementById("intru1").innerHTML = " ";


  document.getElementById("intru2").innerHTML = " ";
 airhelpp.loop = false;
song1air.loop = false;
  document.getElementById("demo").innerHTML= " ";
document.getElementById("demo").innerHTML= " ";
   document.getElementById("myCanvas").style.pointerEvents = "none";
   clearInterval(myInterval2);

  var nosrat = clearInterval(srat);


   videotest.load();


   videotest.srcObject = null;
   videotest.removeAttribute('src');
   videotest.removeChild(videoSource);



e.target.value = "";



  }, 3000);




})






     const imageContainers3 = document.getElementsByClassName('classifyOnClick');

// Now let's go through all of these and add a click event listener.
for (let i = 0; i < imageContainers3.length; i++) {
  // Add event listener to the child element whichis the img element.
  imageContainers3[i].children[0].removeEventListener('click', begin1);
  imageContainers3[i].children[0].removeEventListener('click', begin2);
 imageContainers3[i].children[0].addEventListener('click', begin2);
}
stopsec.onclick = function(){
 clearInterval(myInterval2);
 document.getElementById("demo").innerHTML = " ";



}


  };
```

```
  reader.onprogress = function (e) {
    console.log('progress: ', Math.round((e.loaded * 100) / e.total));
  };



  reader.readAsDataURL(files[0]);
});




  </script>
<div id="divy5" class="classifyOnClick" style="position:fixed;z-index:1;left:0px;top:0px;bottom:0px;" >
<canvas id="myCanvas1" width=1300 height=1300 />
</div>
<div id="input" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" class="btn btn-success fileinput-button">
<span>Drone detection test (upload image file)</span>
<input id="inputs" onclick="this.value = null" type="file" name="file"></input>

</div>

<button class="removeimage" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" id="webcamButton4" onClick="
delete()">Remove Image</button>


 <script>
 var input6 = document.getElementById('inputs')


const c3 = document.getElementById("myCanvas1");

ctx3 = c3.getContext("2d");


var intervo1s;
var intervo1sclear;


input6.onchange=function(event) {

document.getElementById("intru1").innerHTML = " ";


  document.getElementById("intru2").innerHTML = " ";
document.getElementById("deletethislater").innerHTML= " ";
clearInterval(myInterval);
  clearInterval(myInterval2);
  video1.srcObject = null;
  video2.srcObject = null;




    var img = new Image()
    img.onload = function() {


  document.getElementById("divy5").style.top = "0px";
  document.getElementById("demo").innerHTML = " ";
   c3.width = "1300";
        c3.height = "900";








var intervo1s = setInterval(function(){
  ctx3.drawImage(img, 0, 0, 1300, 900)}, 0);



    const imageContainers4 = document.getElementsByClassName('classifyOnClick');
 for (let i = 0; i < imageContainers4.length; i++) {
  // Add event listener to the child element whichis the img element.
  imageContainers4[i].children[0].removeEventListener('click', begin1);
  imageContainers4[i].children[0].removeEventListener('click', begin2);
 imageContainers4[i].children[0].addEventListener('click', begin2);
}


stopsec.onclick = function(){

 clearInterval(myInterval2);
```

```
 document.getElementById("demo").innerHTML = " ";





}





function clearint(){
clearInterval(intervo1s);
}

 document.getElementById("webcamButton4").addEventListener('click', clearint);
//when the button is clicked


$('.removeimage').click(function () {
get2Video(el);
document.getElementById("intru1").innerHTML = " ";


  document.getElementById("intru2").innerHTML = " ";
  //stop the interval
  var intervo1sclear = clearInterval(intervo1s);


  c3.width = "0";
        c3.height = "0";


 ctx3.clear();
 airhelpp.loop = false;
song1air.loop = false;



});













        URL.revokeObjectURL(this.src)
    }
    img.src = URL.createObjectURL(this.files[0])


}





function delet(){
 document.getElementById("demo").innerHTML = " ";
c3.width = c3.width;
ctx3.clear();
var intervo1sclear = clearInterval(intervo1s);
 airhelpp.loop = false;
song1air.loop = false;
document.getElementById("intru1").innerHTML = " ";


  document.getElementById("intru2").innerHTML = " ";




    }
 </script>
```

```
  <p id=demo> </p>

<button id="flips" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" class="flip-front">Flip Camera</button>

<button id="stopsec" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" class="stopsec-front">Stop secondary
detection</button>

<button id="aerial" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" class="aerial-front">Enable aerial object
detection</button>

<button id="intruddo" style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" class="intrudor-front">Enable intruder
detection</button>

<button style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" id="webcamButton10" onClick="enableSecdet()" >Enable
secondary detection</button>

<input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="webcamButton9" value="Delete screen
text"></input >

<input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="webcamButton16" value= "Display on-
screen text" </input>

      <input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="webcamButtonzoom"
onClick="webcamzoom()" value= "Zoom in" </input>

      <input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="webcamButtonzoom1"
onClick="webcamzoomout()" value= "Zoom out" </input>

<input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="webcamButtongrayscale"
onClick="grayscale()" value="Enable Grayscale"></input>

<input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="webcamButtoninvert" onClick="invert()"
value="Invert /Night vision"></input>

<input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="webcamButtonreset" onClick="Reset()"
value="Reset Color"></input>

<input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px;" type="button" id="webcamButtoniandg"
onClick="invertandgrayscale()" value="Invert and grayscale"></input>

<input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="webcamButtonigc"
onClick="invertandgrayscaleandcontrast()" value="Invert , Grayscale and contrast"></input>

<input style="position:relative;z-index:200;left:0px;bottom:0px;font-size:5px" type="button" id="webcamButtonblack"
onClick="brightnessOff()" value="Black "></input>

</div>
```

```
    <!-- Import TensorFlow.js library -->
    <script src="https://cdn.jsdelivr.net/npm/@tensorflow/tfjs@2.0.0/dist/tf.min.js" type="text/javascript"></script>


    <!-- Load the coco-ssd model to use to recognize things in images -->
    <script src="https://cdn.jsdelivr.net/npm/@tensorflow-models/coco-ssd"></script>


    <!-- Import the page's JavaScript to do some stuff -->
    <script src="/script.js" defer></script>
    <script>
    /**
 * @license
 * Copyright 2018 Google LLC. All Rights Reserved.
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 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
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 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 * =============================================================================
 */

/********************************************************************
 * Demo created by Jason Mayes 2020.
 *
 * Got questions? Reach out to me on social:
 * Twitter: @jason_mayes
 * LinkedIn: https://www.linkedin.com/in/creativetech
 ********************************************************************/

const demosSection = document.getElementById('demos');

var model = undefined;

// Before we can use COCO-SSD class we must wait for it to finish
// loading. Machine Learning models can be large and take a moment to
// get everything needed to run.
cocoSsd.load().then(function (loadedModel) {
  model = loadedModel;
  // Show demo section now model is ready to use.
  demosSection.classList.remove('invisible');
});


/********************************************************************
// Demo 1: Grab a bunch of images from the page and classify them
// upon click.
********************************************************************/

// In this demo, we have put all our clickable images in divs with the
// CSS class 'classifyOnClick'. Lets get all the elements that have
// this class.
const imageContainers = document.getElementsByClassName('classifyOnClick');

// Now let's go through all of these and add a click event listener.
for (let i = 0; i < imageContainers.length; i++) {
  // Add event listener to the child element whichis the img element.
  imageContainers[i].children[0].removeEventListener('click', begin1);
  imageContainers[i].children[0].removeEventListener('click', begin2);
}

// When an image is clicked, let's classify it and display results!



/********************************************************************
// Demo 2: Continuously grab image from webcam stream and classify it.
// Note: You must access the demo on https for this to work:
// https://tensorflow-js-image-classification.glitch.me/
********************************************************************/

const video = document.getElementById('webcam');
const liveView = document.getElementById('liveView');

// Check if webcam access is supported.
function hasGetUserMedia() {
  return !!(navigator.mediaDevices &&
```

```
    navigator.mediaDevices.getUserMedia);
}

// Keep a reference of all the child elements we create
// so we can remove them easilly on each render.
var children = [];


// If webcam supported, add event listener to button for when user
// wants to activate it.


const ce = document.getElementById("myCanvas");

const ctx = ce.getContext("2d");

var img = new Image();
img.onload = function(){
   ce.width = video1.clientWidth;
     ce.height = video1.clientHeight;
    ctx.filter = 'brightness(1)';


   ctx.drawImage(img, 0,0);
   setInterval(function(){
   ctx.drawImage(video1, 0,0, video1.clientWidth, video1.clientHeight)}, 1);
      };
  img.crossOrigin = "Anonymous";
  img.src = "https://cdn.glitch.com/74418d0b-3465-49a2-8c71-a721b7734473%2Fcats_flickr_publicdomain.jpg?v=1579294753947";


var video1 = document.getElementById("webcam");
var liveView1 = document.getElementById("liveView");

var el = true;
var flipFront = document.querySelector(".flip-front");
var aerial = document.querySelector(".aerial-front");
var intrudor = document.querySelector(".intrudor-front");
var stopsec = document.querySelector(".stopsec-front");

function get1Video(el){

  navigator.mediaDevices.getUserMedia({
    video: {

            facingMode: el?'user':'environment'
},
    audio: false
  }).then(d=>{
 (el===false)?video1.classList.add("back"):video1.classList.remove("back");


 document.getElementById("intru1").innerHTML = " ";


  document.getElementById("intru2").innerHTML = " ";
 document.getElementById("deletethislater").innerHTML= " ";
 document.getElementById("divy5").style.top = "10000000px";
clearInterval(myInterval2);
document.getElementById("demo").innerHTML= "Primary detection activated <br><br>Intruder detection";
    video1.srcObject = d;
    video1.play();
    video1.addEventListener("loadeddata", intruder);
     video1.removeEventListener("loadeddata", aerialobject);
 const imageContainers = document.getElementsByClassName('classifyOnClick');

// Now let's go through all of these and add a click event listener.
for (let i = 0; i < imageContainers.length; i++) {
  // Add event listener to the child element whichis the img element.
  imageContainers[i].children[0].addEventListener('click', begin1);
  imageContainers[i].children[0].removeEventListener('click', begin2);


}








    })
```

```
  .catch(err=>{
  var msg = 'Either your video cam is missing OR not working properly. Please check.';
  (err.name==='NotFoundError')?alert('Error name: '+err.name+'\nError msg: '+msg):alert('Error name: '+err.name+'\nError msg:
'+err.message);
  });


 var stopprimary = document.querySelector('.stopprimary-front');

document.querySelector('.stopprimary-front').addEventListener('click', function () {


 document.getElementById("demo").innerHTML= " ";
   video1.removeEventListener("loadeddata", aerialobject);
   video1.removeEventListener("loadeddata", intruder);
   video1.addEventListener("loadeddata", predictWebcam1);
   video1.load();
   video1.play();
    });


   var startprimary = document.querySelector('.startprimary-front');

document.querySelector('.startprimary-front').addEventListener('click', function () {


document.getElementById("demo").innerHTML= "Primary detection activated <br><br>Intruder detection";
 video1.removeEventListener("loadeddata", aerialobject);
 video1.removeEventListener("loadeddata", predictWebcam1);
   video1.addEventListener("loadeddata", intruder);


   video1.load();
   video1.play();
    });




   flipFront.onclick = function(){
el=!el;
  stop();
  get1Video(el);





}

intrudor.onclick = function(){


  get1Video(el);









}

aerial.onclick = function(){


  get2Video(el);







}

stopsec.onclick = function(){
 clearInterval(myInterval);
 document.getElementById("demo").innerHTML = " ";
  get1Video(el);
```

```
}

var stop = () => video1.srcObject && video1.srcObject.getTracks().map(t => t.stop());

}

intrudor.onclick = function(){

  get1Video(el);

}

var helpp;
var song1;

var helpp = new Audio('https://www.soundjay.com/buttons/sounds/beep-01a.mp3');

var song1 = new Audio('https://dl.dropboxusercontent.com/scl/fi/a6zln3m9hltlxfo0ld2x2/p_33251812_19.mp3?
rlkey=48t4hcb0as4e2uhgxg1u30o1r&st=88qjdnhz&.mp3dl=0');

function enhancedintruder (event) {
document.getElementById("intru1").innerHTML = " ";

  document.getElementById("intru2").innerHTML = " ";

 helpp.loop = false;
song1.loop = false;

   model.detect(event.target).then(function (predictions) {
    // Lets write the predictions to a new paragraph element and
    // add it to the DOM.

    for (let n = 0; n < predictions.length; n++) {

if ( predictions[n].class == "person") {

predictions[n].class = "Intruder Detected"

document.getElementById("intru1").innerHTML = "Intruder Detected";

helpp.play();
helpp.loop = true;

song1.play();
song1.loop = true;

beep(1000, 2, function () {
```

```
    });



      // Description text


      const p = document.createElement('p');
      p.innerText = predictions[n].class  + '  '
            + ""
            + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + predictions[n].bbox[2] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter1');
    highlighter.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';
         p.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[2] - 5) + 'px;';




setInterval(function(){
  event.target.parentNode.removeChild(highlighter);
 event.target.parentNode.removeChild(p);


},9);

     if (event.target.parentNode.appendChild(highlighter)){


    setTimeout(() => {
     setInterval(function(){


  event.target.parentNode.removeChild(highlighter);
  event.target.parentNode.removeChild(p);




},9);
 event.target.parentNode.appendChild(p);
  imageContainers[i].addEventListener('load', handleClick);
},9);



      }




      if (event.target.parentNode.appendChild(p)){
      setTimeout(() => {
 event.target.parentNode.removeChild(p);



}, 9); }

 if (event.target.parentNode.removeChild(p)){
      setTimeout(() => {
      document.getElementById("intru1").innerHTML = "";

 event.target.parentNode.removeChild(p);
```

```
}, 3); }

      event.target.parentNode.appendChild(p1);
     event.target.parentNode.appendChild(p);
     event.target.parentNode.appendChild(highlighter);

      children.push.appendChild(highlighter);
      children.push.appendChild(p);
    }
    }

  window.requestAnimationFrame(enhancedintruder);

  });
}

var helpp;
var song1;

var helpp = new Audio('https://www.soundjay.com/buttons/sounds/beep-01a.mp3');

var song1 = new Audio('https://dl.dropboxusercontent.com/scl/fi/a6zln3m9hltlxfo0ld2x2/p_33251812_19.mp3?
rlkey=48t4hcb0as4e2uhgxg1u30o1r&st=88qjdnhz&.mp3dl=0');

function intruder() {
document.getElementById("intru1").innerHTML = " ";

  document.getElementById("intru2").innerHTML = " ";

  helpp.loop = false;
song1.loop = false;

model.detect(video).then(function (predictions) {

for (let i = 0; i < children.length; i++) {

liveView.removeChild(children[i]);

}

children.splice(0);

for (let n = 0; n < predictions.length; n++) {

if ( predictions[n].class == "person") {

predictions[n].class = "Intruder Detected"

document.getElementById("intru1").innerHTML = "Intruder Detected";

helpp.play();
helpp.loop = true;
```

```
song1.play();
song1.loop = true;

beep(1000, 2, function () {


    });






    const p = document.createElement('p');
        p.innerText = predictions[n].class  + '  '
            + ""
            + '';
        // Draw in top left of bounding box outline.
        p.style = 'left: ' + (predictions[n].bbox[0] + 100) + 'px;' +
            'top: ' + predictions[n].bbox[1] + 'px;' +
            'width: ' + + (predictions[n].bbox[2] + 230) + 'px;';

        // Draw the actual bounding box.
        const highlighter1 = document.createElement('div');
        highlighter1.setAttribute('class', 'highlighter');
        highlighter1.style = 'left: ' + (predictions[n].bbox[0] + 100) + 'px; top: '
            + predictions[n].bbox[1] + 'px; width: '


            + (predictions[n].bbox[2] + 240) + 'px; height: '
             + (predictions[n].bbox[3] + 210) + 'px;';





liveView.appendChild(highlighter1);

liveView.appendChild(p);



children.push(highlighter1);

children.push(p);


}

else{

}

}

window.requestAnimationFrame(intruder);

});

}
var myInterval;
function begin1(event){

myInterval = setInterval(function () {

  enhancedintruder(event)}, 6);
 document.getElementById("demo").innerHTML = "Secondary detection activated";


//when the button is clicked


$('button').click(function () {

  //stop the interval
  clearInterval(myInterval);




});
```

```
}


var video2 = document.getElementById("webcam");
var liveView2 = document.getElementById("liveView");

var el = true;
var flipFront = document.querySelector(".flip-front");
var aerial = document.querySelector(".aerial-front");
var intrudor = document.querySelector(".intrudor-front");

function get2Video(el){

  navigator.mediaDevices.getUserMedia({
    video: {

            facingMode: el?'user':'environment'
},
    audio: false
  }).then(d=>{
 (el===false)?video2.classList.add("back"):video2.classList.remove("back");
 document.getElementById("intru1").innerHTML = " ";


  document.getElementById("intru2").innerHTML = " ";
 document.getElementById("deletethislater").innerHTML= " ";
  document.getElementById("divy5").style.top = "10000000px";
clearInterval(myInterval);
document.getElementById("demo").innerHTML= "Primary detection activated<br><br>Detection of aerial objects";
    video2.srcObject = d;
    video2.play();
    video2.addEventListener("loadeddata", aerialobject);
    video2.removeEventListener("loadeddata", intruder);
     const imageContainers2 = document.getElementsByClassName('classifyOnClick');

// Now let's go through all of these and add a click event listener.
for (let i = 0; i < imageContainers2.length; i++) {
  // Add event listener to the child element whichis the img element.
   imageContainers2[i].children[0].removeEventListener('click', begin1);
  imageContainers2[i].children[0].addEventListener('click', begin2);


}









    })


  .catch(err=>{
  var msg = 'Either your video cam is missing OR not working properly. Please check.';
  (err.name==='NotFoundError')?alert('Error name: '+err.name+'\nError msg: '+msg):alert('Error name: '+err.name+'\nError msg:
'+err.message);
  });



 var stopprimary = document.querySelector('.stopprimary-front');

document.querySelector('.stopprimary-front').addEventListener('click', function () {


 document.getElementById("demo").innerHTML= " ";
   video2.removeEventListener("loadeddata", aerialobject);
   video2.removeEventListener("loadeddata", intruder);
   video2.addEventListener("loadeddata", predictWebcam1);
   video2.load();
   video2.play();
    });


   var startprimary = document.querySelector('.startprimary-front');

document.querySelector('.startprimary-front').addEventListener('click', function () {


document.getElementById("demo").innerHTML= "Primary detection activated<br><br>Detection of aerial objects";
```

```
 video2.removeEventListener("loadeddata", intruder);
 video2.removeEventListener("loadeddata", predictWebcam1);
   video2.addEventListener("loadeddata", aerialobject);


   video2.load();
   video2.play();
    });

   flipFront.onclick = function(){
el=!el;
  stop();
  get2Video(el);




}

intrudor.onclick = function(){


  get1Video(el);







}

aerial.onclick = function(){


  get2Video(el);




}

stopsec.onclick = function(){
 clearInterval(myInterval2);
 document.getElementById("demo").innerHTML = " ";
  get2Video(el);




}



var stop = () => video2.srcObject && video2.srcObject.getTracks().map(t => t.stop());


}

aerial.onclick = function(){




  get2Video(el);








}
```

```
var airhelpp;
var song1air;

  var airhelpp =  new Audio('https://www.soundjay.com/buttons/sounds/beep-01a.mp3');


var song1air = new Audio('https://dl.dropboxusercontent.com/scl/fi/dtag9d02zn53p3v74orwz/p_33251689_910.mp3?
rlkey=ll5ha1damo08vwe2ixt8gt31b&st=i5bcbpq8&.mp3dl=0');

function aerialobject() {
document.getElementById("intru1").innerHTML = " ";


  document.getElementById("intru2").innerHTML = " ";

airhelpp.loop = false;
song1air.loop = false;


model.detect(video).then(function (predictions) {

for (let i = 0; i < children.length; i++) {

liveView.removeChild(children[i]);

}

children.splice(0);





for (let n = 0; n < predictions.length; n++) {
      // If we are over 66% sure we are sure we classified it right, draw it!




if ( predictions[n].class == "bird") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;
beep(1000, 2, function () {


    });



  const p = document.createElement('p');
      p.innerText = predictions[n].class  + '  '
           + ""
           + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter');
    highlighter.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';





liveView.appendChild(highlighter);

liveView.appendChild(p);

children.push(highlighter);
```

```
children.push(p);


}

else{

}


if ( predictions[n].class == "kite") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;

beep(1000, 2, function () {


    });



  const p = document.createElement('p');
      p.innerText = predictions[n].class  + '  '
           + ""
           + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter');
    highlighter.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';



liveView.appendChild(highlighter);

liveView.appendChild(p);

children.push(highlighter);

children.push(p);


}

else{

}






if ( predictions[n].class == "frisbee") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;

beep(1000, 2, function () {


    });
```

```
  const p = document.createElement('p');
      p.innerText = predictions[n].class  + '  '
            + ""
            + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter');
    highlighter.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';




liveView.appendChild(highlighter);

liveView.appendChild(p);

children.push(highlighter);

children.push(p);


}

else{

}

if ( predictions[n].class == "kite") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;

beep(1000, 2, function () {


    });

   const p = document.createElement('p');
      p.innerText = predictions[n].class  + '  '
            + ""
            + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter');
    highlighter.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';




liveView.appendChild(highlighter);

liveView.appendChild(p);

children.push(highlighter);

children.push(p);
```

```
}

else{

}


if ( predictions[n].class == "traffic light") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;

beep(1000, 2, function () {


    });

   const p = document.createElement('p');
      p.innerText = predictions[n].class  + '  '
            + ""
            + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter');
    highlighter.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';




liveView.appendChild(highlighter);

liveView.appendChild(p);

children.push(highlighter);

children.push(p);


}

else{

}

if ( predictions[n].class == "airplane") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;


beep(1000, 2, function () {


    });



    const p = document.createElement('p');
      p.innerText = predictions[n].class  + '  '
            + ""
```

```
            + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter');
    highlighter.style = 'left: ' + (predictions[n].bbox[0] + 600) + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';






liveView.appendChild(highlighter);

liveView.appendChild(p);

children.push(highlighter);

children.push(p);


}

else{

}

}

window.requestAnimationFrame(aerialobject);

});

}

var airhelpp;
var song1air;

  var airhelpp =  new Audio('https://www.soundjay.com/buttons/sounds/beep-01a.mp3');

var song1air = new Audio('https://dl.dropboxusercontent.com/scl/fi/dtag9d02zn53p3v74orwz/p_33251689_910.mp3?
rlkey=ll5ha1damo08vwe2ixt8gt31b&st=i5bcbpq8&.mp3dl=0');




  function enhancedaerial (event){
  document.getElementById("intru1").innerHTML = " ";


  document.getElementById("intru2").innerHTML = " ";
 airhelpp.loop = false;
song1air.loop = false;


  model.detect(event.target).then(function (predictions) {
    // Lets write the predictions to a new paragraph element and
    // add it to the DOM.



    for (let n = 0; n < predictions.length; n++) {



     if ( predictions[n].class == "kite") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
```

```
song1air.loop = true;

         beep(1000, 2, function () {


    });

 const p = document.createElement('p');
     p.innerText = predictions[n].class  + '  '
            + ""
            + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + predictions[n].bbox[2] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter1');
    highlighter.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';
         p.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[2] - 5) + 'px;';








setInterval(function(){
  event.target.parentNode.removeChild(highlighter);
 event.target.parentNode.removeChild(p);



},9);

     if (event.target.parentNode.appendChild(highlighter)){


    setTimeout(() => {
     setInterval(function(){


  event.target.parentNode.removeChild(highlighter);
  event.target.parentNode.removeChild(p);





},9);
 event.target.parentNode.appendChild(p);
  imageContainers[i].addEventListener('load', handleClick);
},9);



      }






      if (event.target.parentNode.appendChild(p)){
      setTimeout(() => {
 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);


}, 9); }

 if (event.target.parentNode.removeChild(p)){
      setTimeout(() => {
      document.getElementById("intru1").innerHTML = "";

 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);


}, 3); }
```

```
     event.target.parentNode.appendChild(p1);
    event.target.parentNode.appendChild(p);
    event.target.parentNode.appendChild(highlighter);









     children.push.appendChild(highlighter);
     children.push.appendChild(p);
   }


   if ( predictions[n].class == "frisbee") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;

beep(1000, 2, function () {


   });
 const p = document.createElement('p');
     p.innerText = predictions[n].class  + '  '
          + ""
          + '';
     // Positioned at the top left of the bounding box.
     // Height is whatever the text takes up.
     // Width subtracts text padding in CSS so fits perfectly.
     p.style = 'left: ' + predictions[n].bbox[2] + 'px;' +
         'top: ' + predictions[n].bbox[1] + 'px; ' +
         'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

     const highlighter = document.createElement('div');
     highlighter.setAttribute('class', 'highlighter1');
   highlighter.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
         'top: ' + predictions[n].bbox[1] + 'px;' +
         'width: ' + predictions[n].bbox[2] + 'px;' +
         'height: ' + predictions[n].bbox[3] + 'px;';
        p.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
         'top: ' + predictions[n].bbox[1] + 'px; ' +
         'width: ' + (predictions[n].bbox[2] - 5) + 'px;';



setInterval(function(){
  event.target.parentNode.removeChild(highlighter);
 event.target.parentNode.removeChild(p);



},9);

    if (event.target.parentNode.appendChild(highlighter)){


   setTimeout(() => {
    setInterval(function(){


  event.target.parentNode.removeChild(highlighter);
  event.target.parentNode.removeChild(p);
```

```
},9);
 event.target.parentNode.appendChild(p);
  imageContainers[i].addEventListener('load', handleClick);
},9);



      }





      if (event.target.parentNode.appendChild(p)){
      setTimeout(() => {
 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);


}, 9); }

 if (event.target.parentNode.removeChild(p)){
      setTimeout(() => {
      document.getElementById("intru1").innerHTML = "";

 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);


}, 3); }







      event.target.parentNode.appendChild(p1);
     event.target.parentNode.appendChild(p);
     event.target.parentNode.appendChild(highlighter);











      children.push.appendChild(highlighter);
      children.push.appendChild(p);
    }




     if ( predictions[n].class == "airplane") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;

         beep(1000, 2, function () {


    });

 const p = document.createElement('p');
     p.innerText = predictions[n].class  + '  '
            + ""
            + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + predictions[n].bbox[2] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
```

```
      highlighter.setAttribute('class', 'highlighter1');
    highlighter.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';
         p.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[2] - 5) + 'px;';




setInterval(function(){
  event.target.parentNode.removeChild(highlighter);
 event.target.parentNode.removeChild(p);



},9);

     if (event.target.parentNode.appendChild(highlighter)){


    setTimeout(() => {
     setInterval(function(){


  event.target.parentNode.removeChild(highlighter);
  event.target.parentNode.removeChild(p);





},9);
 event.target.parentNode.appendChild(p);
  imageContainers[i].addEventListener('load', handleClick);
},9);



      }






      if (event.target.parentNode.appendChild(p)){
      setTimeout(() => {
 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);


}, 9); }

 if (event.target.parentNode.removeChild(p)){
      setTimeout(() => {
      document.getElementById("intru1").innerHTML = "";

 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);


}, 3); }







      event.target.parentNode.appendChild(p1);
     event.target.parentNode.appendChild(p);
     event.target.parentNode.appendChild(highlighter);
```

```
      children.push.appendChild(highlighter);
      children.push.appendChild(p);
    }

            if ( predictions[n].class == "traffic light") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;

        beep(1000, 2, function () {


    });

 const p = document.createElement('p');
     p.innerText = predictions[n].class  + '  '
           + ""
           + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + predictions[n].bbox[2] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter1');
    highlighter.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';
         p.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[2] - 5) + 'px;';




setInterval(function(){
  event.target.parentNode.removeChild(highlighter);
 event.target.parentNode.removeChild(p);



},9);

     if (event.target.parentNode.appendChild(highlighter)){


    setTimeout(() => {
     setInterval(function(){


  event.target.parentNode.removeChild(highlighter);
  event.target.parentNode.removeChild(p);




},9);
 event.target.parentNode.appendChild(p);
  imageContainers[i].addEventListener('load', handleClick);
},9);



      }




      if (event.target.parentNode.appendChild(p)){
      setTimeout(() => {
 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);
```

```
}, 9); }

 if (event.target.parentNode.removeChild(p)){
      setTimeout(() => {
      document.getElementById("intru1").innerHTML = "";

 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);


}, 3); }







      event.target.parentNode.appendChild(p1);
     event.target.parentNode.appendChild(p);
     event.target.parentNode.appendChild(highlighter);














      children.push.appendChild(highlighter);
      children.push.appendChild(p);
    }




    if ( predictions[n].class == "kite") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;
beep(1000, 2, function () {


    });
 const p = document.createElement('p');
      p.innerText = predictions[n].class  + '  '
            + ""
            + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + predictions[n].bbox[2] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter1');
    highlighter.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';
         p.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[2] - 5) + 'px;';





setInterval(function(){
  event.target.parentNode.removeChild(highlighter);
 event.target.parentNode.removeChild(p);
```

```
},9);
     if (event.target.parentNode.appendChild(highlighter)){

    setTimeout(() => {
     setInterval(function(){

  event.target.parentNode.removeChild(highlighter);
  event.target.parentNode.removeChild(p);

},9);
 event.target.parentNode.appendChild(p);
  imageContainers[i].addEventListener('load', handleClick);
},9);

      }

      if (event.target.parentNode.appendChild(p)){
      setTimeout(() => {
 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);

}, 9); }

 if (event.target.parentNode.removeChild(p)){
      setTimeout(() => {
      document.getElementById("intru1").innerHTML = "";

 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);

}, 3); }

      event.target.parentNode.appendChild(p1);
     event.target.parentNode.appendChild(p);
     event.target.parentNode.appendChild(highlighter);

      children.push.appendChild(highlighter);
      children.push.appendChild(p);
    }

 if ( predictions[n].class == "bird") {

predictions[n].class = "Aerial object detected"
document.getElementById("intru2").innerHTML = "Aerial object detected";

airhelpp.play();
airhelpp.loop = true;

song1air.play();
song1air.loop = true;
beep(1000, 2, function () {

    });

 const p = document.createElement('p');
```

```
     p.innerText = predictions[n].class  + '  '
            + ""
            + '';
      // Positioned at the top left of the bounding box.
      // Height is whatever the text takes up.
      // Width subtracts text padding in CSS so fits perfectly.
      p.style = 'left: ' + predictions[n].bbox[2] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[0] - 10) + 'px;';

      const highlighter = document.createElement('div');
      highlighter.setAttribute('class', 'highlighter1');
    highlighter.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px;' +
          'width: ' + predictions[n].bbox[2] + 'px;' +
          'height: ' + predictions[n].bbox[3] + 'px;';
         p.style = 'left: ' + predictions[n].bbox[0] + 'px;' +
          'top: ' + predictions[n].bbox[1] + 'px; ' +
          'width: ' + (predictions[n].bbox[2] - 5) + 'px;';




setInterval(function(){
  event.target.parentNode.removeChild(highlighter);
 event.target.parentNode.removeChild(p);


},9);

     if (event.target.parentNode.appendChild(highlighter)){


    setTimeout(() => {
     setInterval(function(){


  event.target.parentNode.removeChild(highlighter);
  event.target.parentNode.removeChild(p);




},9);
 event.target.parentNode.appendChild(p);
  imageContainers[i].addEventListener('load', handleClick);
},9);



      }





      if (event.target.parentNode.appendChild(p)){
      setTimeout(() => {
 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);


}, 9); }

 if (event.target.parentNode.removeChild(p)){
      setTimeout(() => {
      document.getElementById("intru1").innerHTML = "";

 event.target.parentNode.removeChild(p);
  imageContainers[i].addEventListener('load', handleClick);


}, 3); }






      event.target.parentNode.appendChild(p1);
     event.target.parentNode.appendChild(p);
     event.target.parentNode.appendChild(highlighter);
```

```
      children.push.appendChild(highlighter);
      children.push.appendChild(p);
    }
    }

  window.requestAnimationFrame(enhancedaerial);

  });

}

var myInterval2;

function begin2(event){

myInterval2 = setInterval(function () {

  enhancedaerial(event)}, 6);
 document.getElementById("demo").innerHTML = "Secondary detection activated";

//when the button is clicked

$('#message').click(function () {

  //stop the interval
  clearInterval(myInterval2);

});

}

 function predictWebcam1() {

  document.getElementById("intru1").innerHTML = " ";

  // Now let's start classifying the stream.
  model.detect(video).then(function (predictions) {

    // Remove any highlighting we did previous frame.
    for (let i = 0; i < children.length; i++) {

   liveView.removeChild(children[i]);
    }
    children.splice(0);
```

```
    // Now lets loop through predictions and draw them to the live view if
    // they have a high confidence score.





            liveView.appendChild(highlighter);
            liveView.appendChild(p);



        // Store drawn objects in memory so we can delete them next time around.
        children.push(highlighter);
        children.push(p);




    // Call this function again to keep predicting when the browser is ready.


    window.requestAnimationFrame(predictWebcam1);
  });
}



    </script>


  </body>
</html>
```